

GenCore version 5.1.4_p5.4578
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OM protein - protein search, using sw model

Run on: March 28, 2003, 12:09:01 ; Search time 30.3251 Seconds
(without alignments)
1463.971 Million cell updates/sec

Title: US-09-924-946-2
Perfect score: 4180
Sequence: 1 MAWSPATLFLFLLLGQPP.....YPANAEULSLQEQLRNLI 756

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 237916 seqs, 58723674 residues

Total number of hits satisfying chosen parameters: 237916

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/FCR_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubaa/FCRUS_PUBCOMB.pep.*
- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09_PUBCOMB.pep.*
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- 12: /cgn2_6/ptodata/1/pubaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	4180	100.0	756	10	US-09-924-946-2
2	4174	99.9	756	10	US-09-870-110-2
3	3645.5	87.2	757	10	US-09-823-038A-52
4	3047.5	72.9	573	12	US-10-067-422-10
5	2278.5	54.5	769	10	US-09-835-996A-39
6	2268.5	54.3	774	9	US-09-974-298-122
7	2268.5	54.3	774	10	US-09-782-980-16
8	2268.5	54.3	774	10	US-09-909-743-7
9	2263	54.1	753	10	US-09-782-980-11
10	2249	53.8	753	10	US-09-909-743-2
11	2249	53.8	753	10	US-09-835-996A-29
12	2232	53.4	443	12	US-10-067-422-27
13	2222	53.2	754	10	US-09-782-980-17
14	2222	53.2	754	10	US-09-909-743-8
15	2163.5	51.8	732	10	US-09-835-996A-13
16	1890.5	45.2	608	10	US-09-835-996A-31
17	1773	42.4	641	9	US-09-948-820-51
18	1282	30.7	227	10	US-09-924-946-7
19	833	19.9	170	12	US-10-067-422-14

20	694	16.6	125	10	US-09-924-946-4	Sequence 4, Appli
21	655.5	15.7	1436	9	US-10-042-431-78	Sequence 78, Appl
22	655.5	15.7	1436	9	US-09-759-130B-448	Sequence 448, App
23	633.5	15.2	822	9	US-09-147-947-6	Sequence 6, Appli
24	626	15.0	1116	9	US-09-977-577-10	Sequence 10, Appl
25	626	15.0	1151	9	US-09-977-577-13	Sequence 13, Appl
26	626	15.0	1156	9	US-09-977-577-12	Sequence 12, Appl
27	619.5	14.8	1149	9	US-09-977-577-11	Sequence 11, Appl
28	611.5	14.6	761	9	US-09-147-947-4	Sequence 4, Appli
29	610	14.6	1319	9	US-10-042-431-14	Sequence 14, Appl
30	610	14.6	1319	9	US-09-759-130B-384	Sequence 384, App
31	610	14.6	1413	9	US-10-042-431-13	Sequence 13, Appl
32	610	14.6	1413	9	US-09-759-130B-383	Sequence 383, App
33	610	14.6	1453	9	US-10-042-431-11	Sequence 11, Appl
34	610	14.6	1453	9	US-09-759-130B-381	Sequence 381, App
35	598	14.3	109	10	US-09-924-946-6	Sequence 6, Appli
36	574	13.7	103	10	US-09-924-946-3	Sequence 3, Appli
37	573	13.7	417	10	US-09-782-980-14	Sequence 14, Appl
38	573	13.7	417	10	US-09-909-743-5	Sequence 5, Appli
39	561.5	13.4	574	10	US-09-782-980-15	Sequence 15, Appl
40	561.5	13.4	574	10	US-09-909-743-6	Sequence 6, Appli
41	541	12.9	101	10	US-09-924-946-5	Sequence 5, Appli
42	465	11.1	347	9	US-09-905-291A-148	Sequence 148, App
43	465	11.1	347	9	US-09-902-853-148	Sequence 148, App
44	465	11.1	347	9	US-09-907-824-148	Sequence 148, App
45	465	11.1	347	9	US-09-907-841-148	Sequence 148, App

ALIGNMENTS

RESULT 1
US-09-924-946-2
; Sequence 2, Application US/09924946
; Patent No. US20020102645A1
; GENERAL INFORMATION: American Home Products Corporation
; APPLICANT: Evans, Mark
; APPLICANT: Scicchantano, Marshall
; APPLICANT: Bapat, Ashok
; APPLICANT: Beer, Eric
; APPLICANT: Bhat, Ramesh
; APPLICANT: Ferris, Elisea
; APPLICANT: Mastroeni, Rob
; APPLICANT: Zhang, Jianxiong
; APPLICANT: Karathanasis, Soririos K.
; TITLE OF INVENTION: A No. US20020102645A1e1 Member of the Lysyl Oxidase Gene Family
; FILE REFERENCE: 0630/IG703-US2
; CURRENT APPLICATION NUMBER: US/09/924,946
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/223,763
; PRIOR FILING DATE: 2000-08-08
; PRIOR APPLICATION NUMBER: 60/255,838
; PRIOR FILING DATE: 2000-12-15
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 756
; TYPE: PRT
; ORGANISM: Human
US-09-924-946-2

Query Match 100.0%; Score 4180; DB 10; Length 756;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 756; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MAWSPATLFLFLLLGQPPSPQSLGTTKLVGPESKPEGRLEVLHOGQWGTVCDD	60
Db	1	MAWSPATLFLFLLLGQPPSPQSLGTTKLVGPESKPEGRLEVLHOGQWGTVCDD	60
QY	61	NFAIQEATVACQQLFEALTWAHSAKYGGEGPILNDNRCVGTESLDDCGSGNGWGS	120
Db	61	NFAIQEATVACQQLFEALTWAHSAKYGGEGPILNDNRCVGTESLDDCGSGNGWGS	120

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181 VKYEGHWQVCDQGWMTMNSRVVCGMLGFPSEVPD\$HYRKVMDLKMDDPKSLKSLTN 240
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361 LFGARLGQGLGPIHLSEVRCRGYERTLSDCPAL\$EGSONGQHENAAAVRCNVPNMGFQNO 420
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RESULT 3
US-09-823-038A-52
; Sequence 52, Application US/09823038A
; Patent No. US20020059335A1
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevin
; APPLICANT: Churnethy, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Murison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.11037C3
; CURRENT APPLICATION NUMBER: US/09/823,038A
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 757
; TYPE: PRT
; ORGANISM: Mouse

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121 DCSHSDVGVICHPRRHRYGLSETVSNALGQGFSEVPD\$HYRKVMDLKMDDPKSLKSLTN 240
181 VKYEGHWQVCDQGWMTMNSRVVCGMLGFPSEVPD\$HYRKVMDLKMDDPKSLKSLTN 240
181 VKYEGHWQVCDQGWMTMNSRVVCGMLGFPSEVPD\$HYRKVMDLKMDDPKSLKSLTN 240
241 KNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACRGHIAVAVSCVAGPHRPPKTKPO 300
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RESULT 2
US-09-870-110-2
; Sequence 2, Application US/09870110
; Patent No. US20020068322A1
; GENERAL INFORMATION:
; APPLICANT: Rachel Meyers
; TITLE OF INVENTION: 47765, A No. US20020068322A1 Human Lysyl Oxidase and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: MNI-160
; CURRENT APPLICATION NUMBER: US/09/870,110
; CURRENT FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/207,650
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 756
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-870-110-2
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 755; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
1 MAWSPATLFLFLLLLGQPPSRPQSLGTTKRLRVGPE\$PEEGREVLVHQQWGTVCDD 60

US-09-823-038A-52

Query Match 87.2%; Score 3645.5; DB 10; Length 757;
Best Local Similarity 86.4%; Pred. No. 4.2e-296;
Matches 654; Conservative 44; Mismatches 58; Indels 1; Gaps 1;
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QY 60 DNFAIQEATVACRQGFEEAALTWAHSAKYQCGEGPIWLDNVRVCVTGTESSLDQCGSNGWVS 119
DB 61 DDFALQEATVACRQGFEEAALTWAHSAKYQCGEGPIWLDNVRCLGTEKTLQCGSNGWGI 120
QY 120 SDCSHSDGVICHPRRHGYSLETVSNAIGPQGRRLLEVRKLPILASAKHSPVTEGAV 179
DB 121 SDCRSHSDGVICHPRRHGYSLETVSNAIGPQGRRLLEVRKLPILASAKHSPVTEGAV 180
QY 180 EVKYGHWRCVQDQGTMMNSRVVCGMLGPPSEVPVDSHYRKVMDLKMDDPKSRKLSLT 239
DB 181 EVRYDGHRCVQDQGTMMNSRVVCGMLGPPSQTSVNSHYRKVMDLKMDDPKSRKLSLT 240
QY 240 NKNSFWIHQVTCIGTEPHMANCQVAPARGKLRPACPGMHAVVSCVAGPHERPPKTKP 299
DB 241 KKNFWIHQVTCIGTEPHMANCQVAPARGKLRPACPGMHAVVSCVAGPHERPPKTKP 300
QY 300 QKGSWAEPRVRLRSGAQVGEGRVEVLMNRQWTCVCDHRWNLLISASVVCRLGFGSAR 359
DB 301 TRKSHAEELKVLRLRSGAQVGEGRVEVLMNRQWTCVCDHRWNLLISASVVCRLGFGSAR 360
QY 360 ALFGARLGQGLGPIHLSEVRCRGYERTLSDCPALGSGONGCOHENAAVRCVNNMGFQ 419
DB 361 ALFGARLGQGLGPIHLSEVRCRGYERTLSDCPALGSGONGCOHENAAVRCVNNMGFQ 420
QY 420 QVRLAGRIPEEGLEVOEVGVPRWGSVCSENWGLTEAMVACRQLGLGFAIHAYKETW 479
DB 421 KVLRLAGRIPEEGLEVOEVGVPRWGSVCSENWGLTEAMVACRQLGLGFAIHAYKETW 480
QY 480 FWSGTPEAEVVMGVRCSGTALQOCQRHGPVHCSSHGGRFLAGVSCMDSAPDLVMA 539
DB 481 YMQGTPEAEVVMGVRCSGTALQOCQRHGPVHCSSHGGRFLAGVSCMDSAPDLVMA 540
QY 540 QLVQETAYLEDRPLSLYCAHEENCLSKSADHMDWPGYRLLRFPSTQIYNLGRDPRK 599
DB 541 QLVQETAYLEDRPLSLYCAHEENCLSKSADHMDWPGYRLLRFPSTQIYNLGRDPRK 600
QY 600 TGRDSWVHCCHRHYSIEVTHYDILLTNGSKVAEGHKAFCLEDTNCPGLQRRYACA 659
DB 601 AGRHSWVHCCHRHYSIEVTHYDILLTNGSKVAEGHKAFCLEDTNCPGLQRRYACA 660
QY 660 NFEQGVTCWCDTYRHDIDCWVDITDVGPGNYIFQVIVNPHYVEAEDSFNNMLQRC 719
DB 661 NFEQGVTCWCDTYRHDIDCWVDITDVGPGNYIFQVIVNPHYVEAEDSFNNMLQRC 720
QY 720 KYDGHVWLNCHTGSYRANAELSLQEQRLRNLI 756
DB 721 KYDGHVWLNCHTGSYRANAELSLQEQRLRNLI 757

RESULT 4
US-10-067-422-10
; Sequence 10, Application US/10067422
; Patent No. US20020143170A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
; FILE OF INVENTION: Antibodies
; FILE REFERENCE: PT004PI
; CURRENT APPLICATION NUMBER: US/10/067,422
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: 09/685,899
; PRIOR FILING DATE: 2000-10-11
; PRIOR APPLICATION NUMBER: PCT/US00/09028

PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 60/152,933
; PRIOR FILING DATE: 1999-09-09
; PRIOR APPLICATION NUMBER: 60/147,020
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/131,672
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/130,693
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 10
; LENGTH: 573
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-067-422-10
Query Match 72.9%; Score 3047.5; DB 12; Length 573;
Best Local Similarity 98.6%; Pred. No. 2.6e-246;
Matches 563; Conservative 0; Mismatches 3; Indels 5; Gaps 2;
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DB 1 MAWSPATLFLFLLLLGGPPSRPQSGLTKLRLVGPESKPEGRLEVLHQQGWTGVD 60
QY 61 NFALQEATVACRQGFEEAALTWAHSAKYQCGEGPIWLDNVRVCVTGTESSLDQCGSNGWVS 120
DB 61 NFALQEATVACRQGFEEAALTWAHSAKYQCGEGPIWLDNVRVCVTGTESSLDQCGSNGWVS 120
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DB 121 DCSHSDGVICHPRRHGYSLETVSNAIGPQAGWR---GRLLKPLASAKHSPVTEGA 177
QY 179 VEKYGHWRCVQDQGTMMNSRVVCGMLGPPSEVPVDSHYRKVMDLKMDDPKSRKLSL 238
DB 178 VEKYGHWRCVQDQGTMMNSRVVCGMLGPPSEVPVDSHYRKVMDLKMDDPKSRKLSL 237
QY 239 TNKNSFWIHQVTCIGTEPHMANCQVAPARGKLRPACPGMHAVVSCVAGPHERPPKTK 298
DB 238 TNKNSFWIHQVTCIGTEPHMANCQVAPARGKLRPACPGMHAVVSCVAGPHERPPKTK 297
QY 299 QKGSWAEPRVRLRSGAQVGEGRVEVLMNRQWTCVCDHRWNLLISASVVCRLGFGSAR 358
DB 298 QKGSWAEPRVRLRSGAQVGEGRVEVLMNRQWTCVCDHRWNLLISASVVCRLGFGSAR 357
QY 359 EALFGARLGQGLGPIHLSEVRCRGYERTLSDCPALGSGONGCOHENAAVRCVNNMGFQ 418
DB 358 EALFGARLGQGLGPIHLSEVRCRGYERTLSDCPALGSGONGCOHENAAVRCVNNMGFQ 417
QY 419 NQVRLAGRIPEEGLEVOEVGVPRWGSVCSENWGLTEAMVACRQLGLGFAIHAYKET 478
DB 418 NQVRLAGRIPEEGLEVOEVGVPRWGSVCSENWGLTEAMVACRQLGLGFAIHAYKET 477
QY 479 WFSGTPEAEVVMGVRCSGTALQOCQRHGPVHCSSHGGRFLAGVSCMDSAPDLVMA 538
DB 478 WFSGTPEAEVVMGVRCSGTALQOCQRHGPVHCSSHGGRFLAGVSCMDSAPDLVMA 537
QY 539 AQLVQETAYLEDRPLSLYCAHEENCLSKSA 569
DB 538 AQLVQETAYLEDRPLSLYCAHEENCLSKSA 568

RESULT 5
US-09-835-996A-39
; Sequence 39, Application US/09835996A
; Patent No. US20020142953A1
; GENERAL INFORMATION:
; APPLICANT: Ballinger, Dennis
; APPLICANT: Loeb, Debra
; APPLICANT: Montgomery, Julie
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle

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Qy 3 WSPPATILFLFILL--LIGOPPPS-----RQSLGTTKRLVGPESKPEGRKLEVLVHQWGM 55
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Qy 56 TVCDNFAIQEATVACROGLGFEAALTUWAHSAKYQGGEPITWLDNVRVCVGTSSSLDQCGSN 115
Db 58 TICDDDFTLQAAHILCRELGTEATGTHWSAKYGPCTGRITWLDNLSCSGTEQSVTECASR 127
Qy 116 GWGVSDCHSSEDVGVI CHPRRRRGYLSETVSNALGPGQGRLEEVRLKPIILASAKOHSPT 175
Db 128 CWGNSDCHDEDAGVICKDOORLPFGSDSNVIEV--BHHLOVEEVRINPAVWGRRPLPVT 185
Qy 176 EGAVEVKEGHRQVQCDQGWITMNNNSRVWCGMLGFPSEVPVDSHYRYKV-----WDLKWRDP 231
Db 186 EGLVEVRLPDGWSQVCDKWSAINSHVVCGLGFPSEKRVNAAFYRKLKRAAKVSARHP 245
Qy 232 K--SELKSITNNKSPWIIHQVTCLTGTEPHMANCOVQVAPARGKLPACPGGMHVAVVCVAG 289
Db 246 KPLGRLLAQROQHSFGLHGACVCTGAHLSCLSEFFVRANDTAR--CPGGGPAPVVCVPG 303
Qy 290 PHF-----RPPKTKPQRKGSAAEPVRVRLRSGAQGEGRVEVLMNRQWGTCDHRWNL 342
Db 304 PYVAASSGOKKQOSKQP-----GEARVRLKGAHPGEGRVEVLKASTWGTVCDRKWDL 357
Qy 343 ISASVVCROGLGFGSAREALFPGALGOGLGPIHLSEVRCRGYERTLSDCPALGSGSONGQH 402
Db 358 HAASVVCRELGLFGSAREALSGARMQGMQGAIHULSEVRCSGOELSUKCPHKNITAEDCSH 417
Qy 403 ENAAAVRCVNPNGFQNOVRLAGRIPEEGLLEVOQEVNGVPRGWSVCSENWGLTEAMVA 462
Db 418 SQDAGVRCNLPTYGAETRIKLSGGRSQHEGRVEVQICGPGPLRWGLICGDDWGTLEAMVA 477
Qy 463 CRQLGLGFPIAHYKETFWFSGTTPRAQEVWMSGVRCSTGTELALQOCQRHCP-VHCSHGGR 521
Db 478 CRQLGLGYANHGLQETWYND--SGNITEVMSGVRCGTGTELSLDCQAHGHTHTICKRTGTR 536
Qy 522 FLVAGVSCMSAPDLVMNAQLVOETAYLREDRLPSQLYCAHEBNCLSKSAHMDWPYGYRL 581
Db 592 TPLQWVQGTGRCOLYHSAVOETAYLFDPLMYLYCAEENCILASSARSANWYGHREL 596

```


APPLICANT: MacBeth, Kyle J.
 APPLICANT: Busfield, Samantha J.
 APPLICANT: McCarthy, Sean A.
 APPLICANT: Holtzman, Douglas A.
 APPLICANT: Gu, Wei
 APPLICANT: White, David
 APPLICANT: Pan, Yang
 TITLE OF INVENTION: NOVEL ITALY, LOR-2, STRIFFE, TEASH, BDSF, LRSG, AND
 TITLE OF INVENTION: STMG PROTEIN AND NUCLEIC ACID MOLECULES AND USES
 TITLE OF INVENTION: THEREFOR

```

; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/276,400
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 774
; TYPE: PRT
; ORGANISM: Homo sapiens
; 09-09-909-743-7

```

Query Match	54.3%	Score	2269.5	DB 10	Length	774			
Best Local Similarity	55.1%	Pred.	No. 4.7e-181						
Matches	408	Conservative	119	Mismatches	190	Indels	23	Gaps	7
QY	21	PSRPOSIGTTKLRLVGPESKPEGRLEVLHGOGWGTVCDDNFATIQEATVACRQLGFFAAL	80						
DB	47	QAPANVAKIQLRLAGOKRKHSEGRVEVYDQGWGTVCDDDFSIHAAHVVCRELGYEAK	106						
QY	81	TWAHSARYGOGEGPIWLDNVRVCVTGESSLDOCGNGNGWSDCSHSDGVTLCHPRHRGY	140						
DB	107	SWTASSSYGKGEGPIWLDNLHCTGNEATLAACTNGWGVTDCKEITDGVVCSOKRIPGF	166						
QY	141	LESTVSNALGPQRRLEEVPLKPIILASAKQHSPTVEGAVEVKYEGHWRQVCDQGWMTNN	199						
DB	167	KFDSNLINQENLNIQVEDIRAILSTYRKPTPMWEGYVEVKEGTWKQICDKHWIAKN	226						
QY	200	SRVVCMLGFPSEVPVDVSHYRKVMDLKMREDPKSLKSLTNKNSFWIHQVTLCLGTEPMA	259						
DB	227	SRVVCMGFFGFE---RTYNTKVY-----KMFASRRKQRYPFSPMDCTQTEAHIS	273						
QY	260	NC-----QVQVAPARKURPACGGMIAVVCVAGPHFRPPKTKPQKGSWAEPEPVLRS	315						
DB	274	SKLGPQVSLPMK---NVTCEGLPAPVVCVPGGVSPDGRSRRPKAYKPGQLPVLRLG	330						
QY	316	GAQVGEGRVEVLNMPQWGTVCDDHRMLISASVVCROLGFGSAREALFGARLQGGIGPIHL	375						
DB	331	GAYIGEGREVELKNGEWGTVCDDKMDLVSASVVCBELGFGSAKEAVTSRLQGGIGPIHL	390						
QY	376	SEVRCRGYERTLSDCPALLEGSONGQHENAAVRNPNMGFQNVQRVLAGGRIPEGLLE	435						
DB	391	NEIQTGNKSIIDCKFNAESQ-GCNHERDAGVRCNTPAMGLQKLRLNGRNPYEGRE	449						
QY	436	VOVEVNGVPRMGVSCSENGLTEAMVACRQLGLGFAIHAYKETWMSGTPRAQEVVMGV	495						
DB	450	VLVERNGSLVMGVCQGNWGIYEAMVVCRLGLGFASNAPOETWYWHGDVNSKNVMSGV	509						
QY	496	RCSGTALALQCCORHC-PVHCSHGGGRFLAGVSCMDSPDLVMAOLVQETAYLEDRPLS	554						
DB	510	KCSGTSLSHLRHGDGEDVACPGQGVQYAGVACSETAPDLVLNAEMVOOTTYLEDRPMF	569						
QY	555	QLYCAHEENCLSKSDHMDWPYGYRLLRFPSTQIYNLGTDFPFPKTRGRSWSWHQCHRY	614						
DB	570	MLQCAHEENCLSASAQTDFTTGYRRLLRFPSTQIHNNGQSDRFPKGRHAWIWHDCRHY	629						
QY	615	HGIEVPTHYDOLLTLNGSKVABGHKASFCLDTCPTCLQRRYACANFEGCGVTCGWDTY	674						
DB	630	HSMEVPTHYDOLLNLNGTKVABGHKASFCLDTCCEGDIQKNYCANFCDGQITMGCDWY	689						
QY	675	RHIDICQWDDITDVGPGNVIQFVIVNPHYEVAESDFENNMLOCRCCKYDGHVWLHNCHTG	734						
DB	690	RHIDICQWDDITDVPCCDYLFOVVIINPNFEVAESDYSNNIMKCRSYDGHRIWNYNCHIG	749						
QY	735	NSYPANAELSLEQEQRLNN	754						
DB	750	GSSEETEKKEFHFGSLNN	769						

RESULT 9
US-09-782-980-11
; Sequence 11, Application US/09782980
; Patent No. US20020072089A1
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran M.

DB	186	EGLEVEKFLPDGWSQYCKRWGSAINLHFLVCHDSTFEL	292
QY	236	KSILTKNSWIEHQVTCLTGTEPHMANCOVQAPARGKLEPACPGMEHVVSCVAGPHF	292
DB	233	LAQRQQLSGFLHGVCVGTTEAHLSCSLSEFYRANTAF--CPGGGPVAVSCVCPGDPVAAAS	290

us-09-924-946-2.rapb

Wed Apr 2 09:14:00 2003

```

; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 29
; LENGTH: 753
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-835-996A-29

Query Match      53.8%; Score 2249; DB 10; Length 753;
Best Local Similarity 54.4%; Pred. No. 1.9e-179;
Matches 418; Conservative 104; Mismatches 207; Indels 40; Gaps 10;

QY 3 WSPATLFLFL--LLGPPPPS-----RQSLGTTKLRLVGPSPKPEGRLEVLHGQWG 55
Db 9 WSPWCLLLCLLSSCLGSPSPSTGPEKAGSOG-LRFRLAGFPKPYEGREVEFORAGEWG 67
QY 56 TVCDNFALQENAVACROLGFEAALTAHSAKYGQEGEPIWLDNVRVCVGFESSLDQCGSN 115
Db 68 TICDDFTLQAAHILCRELGTEATCWTHTSAKYGPGTGRWLNDLSCSGTEQSVTECASR 127
QY 116 CWGVSDCSHSEVDGVICHPRRIRGYLSETVSNALGPGGRLEVRUKPILASAKQHSPT 175
Db 128 CWGNSDCTHDEDAVICKDORLPFGSDSNVIEV--EHHLOVEVRIRPAVCGRRPLPVT 185
QY 176 EGAVEVKEGHRQVDCQGMNNSRVVCGMLGFPSEVPVDSHYRKYVWDLKMRDPKSR 235
Db 186 ECLVEVRLPDGWSQCDKGMSAINSHVWCGMLGFPSEKRVNAAPY-----RL 232
QY 236 KSLTNKNSFWIHQVTCCLGTEPHMANCOVQVAPARGKLRPACPGGMHAAVSCVAGPHE 292
Db 233 LAORQOHSFCLHGVACVGTGEAHLSCLESLEYRANDTAR--CPGGCPAVSCVPGVVAAS 290
QY 293 ----RPEKTPORKGSAEPRVRLRSGCAVGEGRVEVLMNRQMTGTCVDRWNILISAVV 348
Db 291 SGOKKQOQSKFP-----GEVRVRLKGAHPGEGRVEVLKASTWGTVCYRKWDLHAASV 344
QY 349 CROLGFGSAREALFGAHLGQGLGPIHLSEVRCYGRVETLSDCPALEGSONGCOHENAANV 408
Db 345 CRELGFGSAREALSGAKMGQOMGAHLSEVRCSEGLSLKCPKHKNITAECSHSDAGV 404
QY 409 RCNVPNNGFQNVRLAGRIPEEGLLLEVVQVNVGVPWNGSVCSNENGLTEAMVACROGL 468
Db 405 RCNLPYTGAEIRILSGRSQHEGRVEVQIGGPGRLRWGLICGDWDGTEAMVACROGL 464
QY 469 GFAIHAYKETWFWSGTTPRAQVVMVSGVRCSTELALQCCORHGP-VHCSHGGGFLAGVS 527
Db 465 GYANHGLQETWYMD-SGNIETVVMVSGVRCSTELSLDQCAHGHGTHITCKRTGTRTAGVI 523
QY 528 QMSAPDLVMAQLVOETAYLEDRPLSOLYCAHEENCLSKSADHMDWPYGYRRLRLRFSTQ 587
Db 524 CSETASDLLLSALVOETAYIEDRPLHMLYCAAEENCLASSARSANWPGHRRLLRFSSQ 583
QY 588 IYNLGRDTRPKTRGDSWWHQCHRRHYSIEVFTHYDILLTNGSKVAEGHKASFCLIEDTN 647
Db 584 IHNLGRADFRPKAGRHSWWHECHGHYSMDFFTHYDILTPNGTKVAEGHKASFCLIEDTE 643
QY 648 CPTGLORRYACANFEGQGVTCWDTYRHDIDCQWVDITDVGPCNVIQVIVNPHYEVAE 707
Db 644 COEDVSKRYECANFEGQGITVGCWDLRYRHDIDCQWIDITDVRKPNVILQVINPFEVAE 703
QY 708 SDFSNNMLQCRCKYDGRVWLNHCNCHTGNISYPANAELSLDQEQRLRNLI 756
Db 704 SDFTNNMKCNKYDGRHIVWVNHCHIGDAFSEANRRFRERYPGQTSNQI 752

RESULT 12
US-10-067-422-27
; Sequence 27, Application US/10067422
; Patent No. US20020143170A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
; FILE REFERENCE: Antibodies

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; FILE REFERENCE: PT004P1
; CURRENT APPLICATION NUMBER: US/10/067,422
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: 09/685,899
; PRIOR FILING DATE: 2000-10-11
; PRIOR APPLICATION NUMBER: PCT/US00/09028
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 60/152,933
; PRIOR FILING DATE: 1999-09-05
; PRIOR APPLICATION NUMBER: 60/147,020
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/131,672
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/130,693
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-067-422-27

Query Match      53.4%; Score 2232; DB 12; Length 443;
Best Local Similarity 59.8%; Pred. No. 2.4e-178;
Matches 409; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 160 RLKPIILASAKQHSPTVEGAVEVKEGHRQVDCQGMNNSRVVCGMLGFPSEVPVDSHY 219
Db 29 RLKPIILASAKQHSPTVEGAVEVKEGHRQVDCQGMNNSRVVCGMLGFPSEVPVDSHY 98
QY 220 YRKWDLKMRDPKSRILKSLTNKNSFWIHQVTCCLGTEPHMANCOVQVAPARGKLRPACPG 279
Db 89 YRKWDLKMRDPKSRILKSLTNKNSFWIHQVTCCLGTEPHMANCOVQVAPARGKLRPACPG 148
QY 280 MHAVVSCVAGPHEPRPPTKPKORGSWAEBPRVRLRSGCAVGEGRVEVLMNRQMTGTCVDR 339
Db 149 MHAVVSCVAGPHEPRPPTKPKORGSWAEBPRVRLRSGCAVGEGRVEVLMNRQMTGTCVDR 208
QY 340 WNLISASVVCROLGFGSAREALFGAHLGQGLGPIHLSEVRCYGRVETLSDCPALEGSONG 399
Db 205 WNLISASVVCROLGFGSAREALFGAHLGQGLGPIHLSEVRCYGRVETLSDCPALEGSONG 268
QY 400 COHENAAAVRCNVPNNGFQNVRLAGRIPEEGLLLEVVQVNVGVPWNGSVCSNENGLTEA 459
Db 269 COHENDAAVRCNVPNNGFQNVRLAGRIPEEGLLLEVVQVNVGVPWNGSVCSNENGLTEA 328
QY 460 MVACROGLGGLGFAIHAYKETWFWSGTTPRAQVVMVSGVRCSTELALQCCORHGPVHCSHGG 519
Db 329 MVACROGLGGLGFAIHAYKETWFWSGTTPRAQVVMVSGVRCSTELALQCCORHGPVHCSHGG 488
QY 520 GRFLAGVSCMDSAPDLVMAQLVOETAYLEDRPLSOLYCAHEENCLSKSA 569
Db 389 GRFLAGVSCMDSAPDLVMAQLVOETAYLEDRPLSOLYCAHEENCLSKSA 438

RESULT 13
US-09-782-980-17
; Sequence 17, Application US/09782980
; Patent No. US20020072089A1
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran M.
; APPLICANT: MacBeth, Kyle J.
; APPLICANT: Busfield, Samantha J.
; APPLICANT: McCarthy, Sean A.
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Gu, Wei
; APPLICANT: White, David
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL ITALY, LOR-2, STRIPE, TRASH, BDSF, LRSG, AND
; TITLE OF INVENTION: SYMPT PROTEIN AND NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: MNI-121CP

```


; CURRENT APPLICATION NUMBER: US/09/782,980
; CURRENT FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US09/02125
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: 09/448,076
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: 09/276,400
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: 60/117,580
; PRIOR FILING DATE: 1999-01-27
; PRIOR APPLICATION NUMBER: 09/014,195
; PRIOR FILING DATE: 1998-01-27
; PRIOR APPLICATION NUMBER: 09/014,348
; PRIOR FILING DATE: 1998-01-27
; PRIOR APPLICATION NUMBER: 09/086,892
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 09/296,208
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 09/063,950
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 09/561,381
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 09/561,810
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 09/087,121
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 09/672,721
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 09/049,799
; PRIOR FILING DATE: 1998-03-27
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 754
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-782-980-17

Query Match 53.2%; Score 2222; DB 10; Length 754;
Best Local Similarity 54.0%; Pred. No. 3.5e-177;
Matches 413; Conservative 111; Mismatches 195; Indels 46; Gaps 11;

QY 13 LLLL-----GOPPP--SRPQSLGT--TKLRVLGPESKPEEGSLVHLHQGWGTVCDD 60
DB 14 LLLHCLCSFVSGSPSISPEKKVSGQLRFLRAGPRKPYEGRVEIQRAGEWGTICDD 73
QY 61 NFAIQEATVACRQLGFEALTAHSAKYQGGEGPIWLDNVCVGTGTESSLDQCGSGNGWVS 120
DB 74 DFTLOAAHVLCRELGTEATGWTSHSAKYGPGTGRWLDNLSCRGTEGVTGECASRGWNS 133
QY 121 DCSHSEDVGVICHPRRHRYLSETVSNALGPQGR-RLBEVRLKPIILASAKOHSPTGAV 179
DB 134 DCTHDEDAGVICKDQLPGF---SDSNVIEVHQVQVEVRLPAVEWGRRLPVTGGLV 190
QY 180 EVKYEGRHVRQVCDQGTWNNRSVVCMLGPPSEVPDHYRKYVWDLKMRDPKSLKSLT 239
DB 191 EVRLPEGWSQVCDKGSAHNSHVVCMLGPPGPKRYNMAFYRLAQQK-----238
QY 240 NKNSPFIHQVTCLGTEPHMANCQVAPARGKLRPACPGMHAVVSCVAGPHF-----292
DB 239 -QHSFGLHSVACVTEAHLISLCSLEFYRANDTTR--CSGNGPAVVCVGLPLYATFTGQK 295
QY 293 RPKTKPQKGSWAEBEPRVRLRSGAQVGBGRVEVLMNRMGTVCDDRWNLIISASVVCROL 352
DB 296 KQHSKPKQ-----GEARVRLKGAHQHGEGRVEVLKAGTGTGTCVDRKNDLQAASVVCPEL 349
QY 353 GFGSAREALFGARLQGLGPIHLSEVRCRGVETILSDCPALGSGQNGCHENAAAVRCNV 412
DB 350 GFGTAREALSGARMQGMGAHILSEVRCSGQEPISLWRCPSKNITAECDGSHSDAGVRCNL 409
QY 413 PNMGFONVRLAGRIPEEGGLLEQVQVNGVPRMGSCVSENKGLTEAMVACRQLGIGFAI 472
DB 410 PYTGVEVKIRLSGRSRYEGRVEVQIGIPGHLRWGLICGDDWGTLEAMVACRQLGLGYAN 469

QY 473 HAYKETWFSGTTPRAQEVYVMGVRCSGTETALQOQCRHGP-VHCSHGGGRFLAGVSCMDS 531
DB 470 HGLQETWYD-SGNVTEVVMGVRCTGSELSLNOCAHSHSHITCKKTGTRFTAGVICSET 528
QY 532 APDLVMAQLVQETAYLEDRPLSQLYCAHEENCLSKSADHMDWPGYRLLRSTQIYNL 591
DB 529 ASDLLHSALVQETAYIEDRPLHMLYCAAEENCLASSARSANWPGYHRRLLRFSSQIHL 588
QY 592 GRTDPRKTGRDSNVWQHCHBHYHSIEVFTHYDILLTNGSKVAEGHKASCLEDNCTPG 651
DB 589 GRADFRPKAGRHSHVWHECHGHYSMDIFTHYDILTPNGTKVAEGHKASCLEDTEQED 648
QY 652 LQRRYACANFGEQGVTVGCMWTYRHIDICQWVDITDVPGNYIFQVIVNPHYEVAESDFS 711
DB 649 VSKRYECANFGEQGITVGCNDLYRHIDICQWIDITDVKPGNYILOVVINPFVAESDFT 708
QY 712 NNMLQCRCKYDGHVRVWLNHCHTNGSNYPANAELSLEQEQRLNNLI 756
DB 709 NNAMKCNCKYDGHRIWVHCHIGIDAFSEANRRFRERYPGQTSNQI 753

RESULT 14
US-09-909-743-8
; Sequence 8, Application US/09909743
; Patent No. US20020151007A1
; GENERAL INFORMATION:
; APPLICANT: Khodadoust, Mehran et al.
; TITLE OF INVENTION: METHODS OF USE OF A NOVEL LYSYL OXIDASE RELATED
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: MNI-073CP
; CURRENT APPLICATION NUMBER: US/09/909,743
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/448,076
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/276,400
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 754
; TYPE: PRT
; ORGANISM: murine lysyl oxidase-related protein
US-09-909-743-8

Query Match 53.2%; Score 2222; DB 10; Length 754;
Best Local Similarity 54.0%; Pred. No. 3.5e-177;
Matches 413; Conservative 111; Mismatches 195; Indels 46; Gaps 11;

QY 13 LLLL-----GOPPP--SRPQSLGT--TKLRVLGPESKPEEGSLVHLHQGWGTVCDD 60
DB 14 LLLHCLCSFVSGSPSISPEKKVSGQLRFLRAGPRKPYEGRVEIQRAGEWGTICDD 73
QY 61 NFAIQEATVACRQLGFEALTAHSAKYQGGEGPIWLDNVCVGTGTESSLDQCGSGNGWVS 120
DB 74 DFTLOAAHVLCRELGTEATGWTSHSAKYGPGTGRWLDNLSCRGTEGVTGECASRGWNS 133
QY 121 DCSHSEDVGVICHPRRHRYLSETVSNALGPQGR-RLBEVRLKPIILASAKOHSPTGAV 179
DB 134 DCTHDEDAGVICKDQLPGF---SDSNVIEVHQVQVEVRLPAVEWGRRLPVTGGLV 190
QY 180 EVKYEGRHVRQVCDQGTWNNRSVVCMLGPPSEVPDHYRKYVWDLKMRDPKSLKSLT 239
DB 191 EVRLPEGWSQVCDKGSAHNSHVVCMLGPPGPKRYNMAFYRLAQQK-----238
QY 240 NKNSPFIHQVTCLGTEPHMANCQVAPARGKLRPACPGMHAVVSCVAGPHF-----292
DB 239 -QHSFGLHSVACVTEAHLISLCSLEFYRANDTTR--CSGNGPAVVCVGLPLYATFTGQK 295
QY 293 RPKTKPQKGSWAEBEPRVRLRSGAQVGBGRVEVLMNRMGTVCDDRWNLIISASVVCROL 352
DB 296 KQHSKPKQ-----GEARVRLKGAHQHGEGRVEVLKAGTGTGTCVDRKNDLQAASVVCPEL 349

us-09-924-946-2.rapb

Wed Apr 2 09:14:00 2003

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353 GFGSAREALFARLGOGLPIHLSEVRGVERTLSDCPALGSONGQCHENAAVRCNV 412
350 GFGTAREALSGARMGQGAHLEVRSGQPSLWRCPSKNITAECDSCSHSODAGVRCNL 409
413 PNMFGONVRLAGRIPIEGELLEVOVEVNGVPRKSCVSENWGLTEAMVACRQLGLGFAI 472
410 PYTVETKIRLSGGRSRYEGREVEVIGIPGHLURWGLICDDDTLEAMVACRQLGLGVAN 469
473 HAYKETWFSCTPRAQEVVMSGVRSGTELALQOQORHGP-VHCSHGGRFLAGVSCMDS 531
470 HGLQETWTD-SGNVTEVMSGVRSGTELSLNOCAHSHSHITCKRTGTRFAGVTCSET 528
532 APDLVMAQLQVETAYLEDRPLSQLYCAHEENCLSKSADHMDWPYGRRLRPFSTOYINL 591
529 ASDLLHLSALQVETAYIEDRLHMLYCAAEENCLASSARSANWPYGHRRLLRFFSQIHNL 598
592 GRDPRPKTGRDSWVWCHQHRVHSIEVETHYDILLTLNGSKVAEGHKAFCLEDTNCPGT 651
589 GRADPRPKAGRHSVWHECHGHYHSMDFETHYDILTNGTKVAEGHKAFCLEDTNCPGT 648
652 LORRYACANFGQGVTVGMDTYRHDIDCWVDITDYGNGYLFVIVNPHYEVASDFES 711
649 VSKRYECANFGQGVTVGMDTYRHDIDCWVDITDYGNGYLFVIVNPHYEVASDFES 708
712 NNMLQCRKYDGHVRVWHLNCHTNGSNYPANAEUSLEOQRUNNLI 756
709 NNAMKCNCKYDGHRIWVHNCHIGDAFSEANRRFRERYPGQTSNOI 753

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RESULT 15
US-09-835-996A-13
Sequence 13, Application US/09835996A
Patent No. US20020142953A1
GENERAL INFORMATION:
APPLICANT: Ballinger, Dennis
APPLICANT: Loeb, Debra
APPLICANT: Montgomery, Julie
APPLICANT: Tang, Y. Tom
APPLICANT: Zhou, Ping
APPLICANT: Goodrich, Ryle
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhao, Qing
APPLICANT: Wehrman, Tom
APPLICANT: Drmanac, Radoje
APPLICANT: Ren, Feiyang
APPLICANT: Qian, Xiaohong
APPLICANT: Wang, Dunrui
APPLICANT: Wang, Dunrui
FILE OF INVENTION: MATERIALS AND METHODS RELATING TO LIPID METABOLISM
FILE REFERENCE: 28110/35915A
CURRENT APPLICATION NUMBER: US/09/835,996A
CURRENT FILING DATE: 2001-04-16
PRIOR APPLICATION NUMBER: US 60/197,137
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: US 09/714,936
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: US 09/667,298
PRIOR FILING DATE: 2000-09-22
PRIOR APPLICATION NUMBER: US 09/631,451
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 09/598,042
PRIOR FILING DATE: 2000-06-20
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn version 3.0
SEQ ID NO 13
LENGTH: 732
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (632)
OTHER INFORMATION: Xaa = unknown or other
NAME/KEY: misc_feature

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; LOCATION: (672)
; OTHER INFORMATION: Xaa = unknown or other
; NAME/KEY: misc_feature
; LOCATION: (711)
; OTHER INFORMATION: Xaa = unknown or other
US-09-835-996A-13

Query Match 51.8%; Score 2163.5; EB 10; Length 732;
Best Local Similarity 54.3%; Pred. No. 2.6e-172; Indels 49; Gaps 12;
Matches 407; Conservative 96; Mismatches 198;

QY 3 WSPATLLEPLL-LLCQPPPS-----RPOSIGTTTKLRLGPEKPEGRLEVLHOGQWG 55
Db 9 WSPWGLLLCLLCCSCLGSPSPSTGPEKKAGSQG-LRFEL/GFPRKPYEGRVEIQAGEWG 67
QY 56 TVCDNPAIQEATVACRQLGFEAALTWAHSAKYQGGEP1WLDNVRVCVGTESLSDQCSN 115
Db 68 TICDDDTFLQAAHILCBELGTEATGTHSAKYGPGTGR WLDNLSCSGTEQSVTECASR 127
QY 116 GWVSDCSHSEDVGVVICHPRHRGYSLETVSNALGPOGRHLEEVRLKPLASAKOHSPT 175
Db 128 GWGNSDCTHDEDAVICKDQPLPGFSDSNVLEV--EHLV/YVEEVIRPAVWGRRRLPVT 185
QY 176 EGAVEVKEYEGHWRQVCDQGTWNNNSRVVCGMLGPPSEVP/DSHYRKYVWDLKMROPKSRL 235
Db 186 ECLVEVRLPOGWSQVCDXGWSAHNSHVVCVGMGLGPPSEKR/NAAFY-----RL 232
QY 236 KSLTNKNSFMHQTCLQTEPHMANCQVAPARGKLRP ACPGGMHVVVSCVAGPHF-- 292
Db 233 LAQROHSHFGLHGVACVGTAEHLSCSLSEFVRANDTAR--CFGGGPAVVVSCVPGPVYAS 290
QY 293 -----RPPKTKPORKGSAEPRVRLRSCAOCGEVREVLNRQWGTVCDDRHWMLISASVV 348
Db 291 SGQKXQOOSKPO-----GEVRLKGGNHPGEGRVEVLKASTWGTVCYRKMWDLHAASVV 344
QY 349 CROLGFGSAREALFARLGOGLGPHLSEVRCRGVERTI SDCPALGSONGQCHENAAAV 408
Db 345 CRELGFGSAREALSGARMGQGMGAHLESEVRCSCGQELS1WKCPHKNTAEDCSHQDAGV 404
QY 409 RCNVPMNGFON-----QVRLAGRIPIEGELLEVOVEVNGVPRKSCVSENKGLTEAM 460
Db 405 RCNLPVTGAETRVIHVSLSQIELSGRSGHGEGRVEVOICGPGPLRWGLICDDDTLEAM 464
QY 461 VACROLGLGFAIHAYKETWFSCTPRAQEVVMSGVRSC TELALQOQORHGP-VHCSHG 519
Db 465 VACROLGLGYANHGLQETWYWD-SGNITEVMSGVRCT TELSDOCAAHHGTHITCKRTG 524
QY 520 GBFLAGVSCMDSAPDLVMAQLVQETAYLEDRPLSQLY/AHEENCLSKSADHMDWPYGR 579
Db 524 TRFTAGVICSE-ASDLLHLSALVQETAYIEDRLHMLY/AAEENCLASSARSANWPYGH 582
QY 580 RLLRPFSTQIYNLCRTDFRKTGRDSWVWCHQHRVHSIIETHYDILTNGSKVAEGHKA 639
Db 583 RLLRPFCSQIHNLCRADFRPKAGRHSVWHECHGHYHST1EFTHYDILTNGSKVAEGHKA 642
QY 640 SPCLEDTNCPGTGLORRYACANFGQGVTVGMDTYRHDIDCWVDITDYGNGYLFVIV 699
Db 643 SPCLEDTNCPGTGLORRYACANFGQGVTVGMDTYRHDIDCWVDITDYGNGYLFVIV 702
QY 700 NPHYEVASDFSNMNLQCRCKYDGHVRVWLH 729
Db 703 NPNFEVAXDFTNNAMKCNCKYDGHRIWVH 732

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Job time : 33.4918 secs

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